(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 20 November 2003 (20.11.2003)

PCT

(10) International Publication Number WO 03/095979 A1

- (51) International Patent Classification⁷: G01N 1/00, B01D 11/00, C07D 311/30, 311/40, 455/03, C07H 15/256
- (21) International Application Number: PCT/SG02/00063
- (22) International Filing Date: 19 April 2002 (19.04.2002)
- (25) Filing Language:

1

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): HEALTH SCIENCES AUTHORITY [SG/SG]; 11 Outram Road, Singapore 169078 (SG).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): ONG, Eng, Shi [SG/SG]; 30 Lorong Pisang Raja, Singapore 597762 (SG).
- (74) Agent: NG KIM TEAN; Messrs Alain A. Johns, 14 Robinson Road, #02-03/04, Far East Finance Building, Singapore 048545 (SG).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

[Continued on next page]

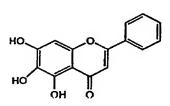
(54) Title: PRESSURIZED HOT WATER EXTRACTION



RO HOOG O OH OH

09371

B)



(57) Abstract: Methods for the pressurized hot water extraction (PHWE) of compounds from a sample of interest are disclosed. Applications of the method to the extraction of bioactive compounds from botanical samples are disclosed. The disclosed methods do not require the use of subcritical conditions and may be conducted under dynamic flow conditions in the presence of one or more organic solvents. The disclosed methods also provide extraction efficiencies comparable to soxhlet extraction.